

## CLAIM AMENDMENTS

### IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1-5. (Canceled)

6. (Currently Amended) A data transmission system for use in a machine having a plurality of drive systems, comprising

a control functional unit associated with each drive system, ~~and~~

associated control computers linked through a first control network and coupled with said control functional units to perform high level process control;

a second independent network interconnecting said control functional units for real time cross-communication there between,

whereby information relating to movement control from any one of said control functional units is simultaneously transmitted to all of the other of said control functional units.

7. (Previously Presented)The data transmission system according to claim 6, wherein the real-time cross-communication can be carried out using Ethernet links.

8. (Previously Presented)The data transmission system according to claim 6, wherein the control functional units can be synchronized by means of Ethernet real-time cross-communication.

9. (Previously Presented) The data transmission system according to claim 6, wherein data and synchronization signals from drive regulators can be interchanged with an associated control functional unit using Ethernet real-time communication.
10. (Previously Presented) The data transmission system according to claim 6, wherein the machine is a printing machine.
11. (NEW) The data transmission system according to claim 6, wherein each drive system comprises a plurality of drive regulators coupled with each respective control functional unit.
12. (NEW) The data transmission system according to claim 11, wherein the drive regulators of one drive system are linked through a third network selected from the group consisting of a ring network, a serial network, and a star network.
13. (NEW) The data transmission system according to claim 12, wherein the third network is a real-time Ethernet network.
14. (NEW) The data transmission system according to claim 6, wherein the first network is used to transmit non-time critical data or parameters.
15. (NEW) A data transmission system for use in a printing machine having a distributed control functionality and a networked complex movement control, comprising:
- a plurality of drive systems each having a plurality of drive regulators arranged in a group, wherein each drive system comprises an associated control functional unit;
  - a plurality of control computers each coupled through a first control network with an associated control functional unit;

a second independent network interconnecting said control functional units for real time cross-communication there between,

whereby information relating to movement control from any one of said control functional units is simultaneously transmitted to all of the other of said control functional units through said second network.

16. (NEW) The data transmission system according to claim 15, wherein the real-time cross-communication can be carried out using Ethernet links.

17. (NEW) The data transmission system according to claim 15, wherein data as well as synchronization signals from the control functional units can be exchanged with said drive regulators by means of Ethernet real-time cross-communication.